

Common Sense Initiative, Automobile Manufacturing Sector

***U.S. Automobile Assembly Plants and Their Communities:
Environmental Economic, and Demographic Profile***

**Part III: Automobile/Light Duty Truck Assembly
Plant-Community Profiles**

**19. Chrysler Corp. (Jefferson N)
Detroit, MI**

December 1997

Contents and Guidelines for Use

Users of this profile should carefully review the description of methods, data limitations, and guidelines for use and interpretation of the data presented in Part I of the report.

Contents:

Plant Locations (National and Michigan maps)
Plant Location, Database Identification Numbers, 1994 Production and Employment
1991 and 1993 RCRA Biennial Report Summary
1991-1994 TRI Releases and Transfers Summary
1994 TRI Releases and Transfers by Chemical
1991-1994 Volatile Organic Compound and Nitrogen Oxide Emissions
1994 Summary of TRI Chemical Releases and Transfers from Sources within 3 Miles of Assembly Plant
Air Quality Attainment Status for Criteria Pollutants (as of 1994)
Community Demographic and Economic Characteristics
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Demographic Characteristics (maps)

General Guidelines for Use

Efforts have been made to ensure that the data presented here are accurate. The Project Team could not independently verify data accuracy in all cases, however, and some errors may remain. The following is a partial list of factors that should be considered in using these profiles:

1. Current releases presented in this report represent only some of the contamination sources in a given area. Data on historical releases (prior to 1991) were not included, and releases from non-assembly plant emission sources were identified only through the Toxics Release Inventory (TRI). TRI data do not cover all sources of releases. Considering only TRI data for a given community may mis-state the relative contribution of plants and their neighboring TRI facilities to an area's total releases.
2. Care must be taken to distinguish true changes over time in environmental releases from apparent changes, due, for example, to changes in the scope of reporting requirements.
3. TRI data are often based on engineering estimates and are reported on an annual basis. Data on releases over shorter time frames are not available.
4. TRI, the Biennial Report and other databases do not include all substances and environmental releases of concern.

Notes on Comparisons Across Facilities

1. The following factors can affect an assembly plant's environmental profile, among other things: the number of vehicles produced, plant age, process equipment age, and vehicle size and configuration.
2. Some plants are highly-integrated, performing some parts and all assembly steps in-house. Others obtain parts from other manufacturing facilities, or share assembly operations with another plant.
3. States differ in how they define hazardous waste and how they treat recycled wastes and small quantity generators. Therefore, data on quantities of BRS wastes generated may not be comparable for plants located in different states.
4. Area-wide averages for economic and demographic characteristics may be better or worse measures of the plant's immediate community, depending on the specific location of a plant within the reporting area.

Plant-Community Profile:
Chrysler Corp.
Detroit MI

12/2/97

LOCATION	Address	2102 Conner Ave., Detroit MI 48215			DESCRIPTION	Produced Jeep Grand Cherokee in 1994.		
	Lat/Long:	latitude (degrees N)	42 22' 25"					
		longitude (degrees W)	82 57' 36"					
	County:	Wayne	MSA:	Detroit MI				
OPERATIONS	Other counties within 3 miles of plant:	none			ID NUMBERS	RCRA ID	MID985569987	
						AIRS ID	AFS2616303677	
						NPDES ID	-	
						TRI	48215CHRYL2101C	
	Calendar Year:	1991	500	943				
		1992	122,961	2,808				
		1993	245,321	2,966				
		1994	262,955	4,384				

PLANT ENVIRONMENTAL PROFILE

RCRA BIENNIAL REPORT

<i>Waste Code(s)</i>	<i>Wastewater?</i>	<i>Physical Form</i>	<i>Source</i>	<i>Mgd. On/Off-Site</i>	<i>Management Method</i>	<i>Quantity Generated (tons)</i>	<i>Quantity Shipped (tons)</i>	<i>Quantity Mgd. On-Site (tons)</i>
<i>1991</i>								
D001 (ignitable)	N	B211 org. liquids	A04 flush rinsing	Off	M021 solvents recov.	8.8	8.8	0.0
D001 (ignitable)	N	B211 org. liquids	A04 flush rinsing	Off	M021 solvents recov.	2.9	2.9	0.0
D001 (ignitable)	N	B211 org. liquids	A04 flush rinsing	Off	M022 solvents recov.	0.7	0.7	0.0
D001(ignit) F003 (solvents)	N	B211 org. liquids	A21 painting	Off	M061 fuel blending	14.3	9.5	0.0
D001(ignit) F003 (solvents)	N	B310 inorg. solids	A21 painting	Off	M061 fuel blending	0.5	0.5	0.0
D002, D007	N	B103 inorg. liquids	A02 acid cleaning	Off	M121 neutralization	17.7	213.0	0.0
D008 (lead)	N	B310 inorg. solids	A21 painting	Off	M111 stabilization	0.9	0.9	0.0
F003 (nonhalog. solvents) D001(ignit.)	N	B211 org. liquids	A04 flush rinsing	Off	M021 solvents recov.	32.5	32.5	0.0
F003 (nonhalog. solvents) D001(ignit.)	N	B211 org. liquids	A21 painting	Off	M022 solvents recov.	22.9	22.9	0.0
TOTAL - 1991						101.4	291.8	0.0
<i>1993</i>								
D001 (ignitable)	N	B203 org. liquid	A21 painting	Off	M022 solvents recov.	4.4	4.4	0.0
D001(ignitable) F003 (solvents)	N	B211org. liquid	A21 painting	Off	M061 fuel blending	24.0	24.0	0.0
D008 (lead)	N	B310 inorg. solids	A21 painting	Off	M111 stabilization	14.9	14.9	0.0
D008 (lead)	N	B513 inorg sludges	A21 painting	Off	M111 stabilization	15.8	15.8	0.0
F003 (solvents) D001(ignitable)	N	B211org. liquid	A21 painting	Off	M022 solvents recov.	573.9	573.9	0.0
F003, D001, D035	N	B310 inorg. solids	A21 painting	Off	M061 fuel blending	11.4	11.4	0.0
TOTAL - 1993						644.3	644.3	0.0

TOXICS RELEASE INVENTORY

<i>Total lbs of TRI chemicals:</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Energy Recovery</i>	<i>Off-Site Recycling</i>	<i>Off-Site Treatment</i>	<i>Off-Site Disposal</i>	<i>Total Transfers</i>
1991	320	4,868	5,188	2,400	547	77,400	0	12	80,359
1992	156,641	561,067	717,708	10,671	1,100	680,908	8,017	19	700,715
1993	94,158	497,383	591,541	47,851	9,601	803,502	50,010	70	911,034
1994	112,062	352,047	464,109	85,282	15,505	669,809	49,855	840	821,291
Lbs. per vehicle produced:									
1991	0.64	9.74	10.38	4.80	1.09	154.80	0.00	0.02	160.72
1992	1.27	4.56	5.84	0.09	0.01	5.54	0.07	0.00	5.70
1993	0.38	2.03	2.41	0.20	0.04	3.28	0.20	0.00	3.71
1994	0.43	1.34	1.76	0.32	0.06	2.55	0.19	0.00	3.12

Plant-Community Profile:
Chrysler Corp.
Detroit MI

12/2/97

PLANT ENVIRONMENTAL PROFILE (continued)

1994 TRI Emissions/Releases by Chemical (lbs.)

<i>Chemical Name</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Energy Recovery</i>	<i>Off-Site Recycling</i>	<i>Off-Site Treatment</i>	<i>Off-Site Disposal</i>	<i>Total Transfers</i>
METHANOL	1,500	50	1,550	0	75	0	0	0	75
N-BUTYL ALCOHOL	6,600	41,000	47,600	0	2,400	4,294	561	0	7,255
BENZENE	53	23	76	0	0	0	220	0	220
METHYL ETHYL KETONE	23,000	120	23,120	0	790	0	0	0	790
1,2,4-TRIMETHYLBENZENE	28,000	45,000	73,000	0	6,200	5,400	611	0	12,211
ETHYLBENZENE	2,300	14,000	16,300	0	780	9,831	191	0	10,802
ETHYLENE GLYCOL	200	4	204	560	0	0	0	0	560
METHYL ISOBUTYL KETONE	6,000	39,000	45,000	0	0	410,000	0	0	410,000
XYLENE (MIXED ISOMERS)	18,000	100,000	118,000	0	4,600	240,170	1,002	0	245,772
COPPER	330	1,800	2,130	22	0	0	5,800	260	6,082
PHOSPHORIC ACID	76	660	736	0	0	0	0	0	0
NITRIC ACID	3	390	393	0	0	0	0	0	0
GLYCOL ETHERS	26,000	110,000	136,000	83,000	660	0	1,270	0	84,930
MANGANESE COMPOUNDS	0	0	0	770	0	0	7,000	0	7,770
NICKEL COMPOUNDS	0	0	0	770	0	0	7,500	0	8,270
ZINC COMPOUNDS	0	0	0	160	0	114	25,700	580	26,554
TOTAL	112,062	352,047	464,109	85,282	15,505	669,809	49,855	840	821,291

VOC/NOx Emissions:
(lbs/year)

	<i>VOCs</i>	<i>NO2</i>
1990	NA	NA
1991	74,228	0
1992	1,128,000	120,000
1993	1,402,000	125,000
1994	1,478,000	126,000

Plant-Community Profile:
Chrysler Corp.
Detroit MI

12/2/97

COMMUNITY ENVIRONMENTAL PROFILE

TRI Chemical Releases & Transfers from Sources Within 3 Miles of Auto/LDT Plant (lbs.)

<i>Facility (w. map #)</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Transfers</i>	<i>Total Transfers</i>
1 PVS TECH. INC.	0	129	129	0	1,834	1,834
2 NEW MACK VIPER ASSEMBLY	5	0	5	0	37	37
3 CONTINENTAL ALUMINUM CO.	0	0	0	0	0	0
5 CHRYSLER CORP. JEFFERSON ASSE	0	0	0	0	0	0
6 HACKETT BRASS FNDY. CO.	0	3,100	3,100	0	20,100	20,100
7 NATIONAL VARNISH CO.	0	0	0	0	0	0
8 ALCO-NVC INC.	4,778	0	4,778	0	0	0
1 ROCKWELL INTL. CORP. PLASTICS D	0	0	0	0	0	0
3 LIQUI DRI FOODS INC.	0	0	0	0	0	0
Total	4,783	3,229	8,012	0	21,971	21,971

**Air Quality Attainment Status
(as of 1994)**

ozone - nonattainment (moderate)*
carbon monoxide - nonattainment - not classified
particulates - nonattainment (moderate)**
lead - unclassifiable
NO2 - cannot be classified or better than national standards
SO2 - attainment

* redesignated attainment effective 4/6/95 (60 FR 12459)

** redesignated attainment effective 10/4/96 (61 FR 40519)

**Plant-Community Profile:
Chrysler Corp.
Detroit MI**

12/2/97

COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

	<i>Census Block</i>	<i>0-1 Mile</i>	<i>0-3 Miles</i>	<i>1-3 Miles</i>	<i>3-5 Miles</i>	<i>County</i>	<i>State</i>	<i>U.S.</i>
Total Population (1994)	NA	NA	NA	NA	NA	2,064,819	9,496,539	260,340,990
Total Population (1990)	544	15,611	160,193	144,582	163,976	2,111,687	9,295,297	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	-2	2	5
Total Area (sq. mi.) (1990)	0.6	3.1	28.2	25.1	50.2	614.1	56,809.2	3,536,278.1
Population/sq. mi. (land area) (1990)	3,728	5,533	7,391	7,669	6,222	3,438	164	70
Median Household Income (1994)						NA	35,284	32,264
Median Household Income (1989)						27,997	31,020	30,056
% Change 1979-1989 (constant \$)						-10	-4	7
% Change 1989-1994 (constant \$)						NA	14	7
Per Capita Personal Income (1993)						19,912	20,584	20,800
Per Capita Personal Income (1989)						17,104	17,546	17,690
% Change 1989-1993 (current \$)						16	17	18
Minority Percentage (1990)	92	94	74	72	53	42	16	20
Pct. of Households Below Poverty Level (1989)	65	57	38	36	34	25	23	20
Pct. Not Completing High School (1990)	49	48	36	34	32	30	23	25
Total Employment (1994) (civilian nonfarm)						929,642	4,753,000	131,056,000
Unemployment Rate (1994)						7	6	6
Manufacturing Employment (1993)						182,126	906,672	18,183,381
Mfgr. as % Total Employment (1993)						26	26	19
Manufacturing Employment (1992)						187,100	917,000	18,253,000
Production Workers (1992)						93,500	574,000	11,654,000
% Change in Mfgr. Employment 1987-1992						-19	-7	-4
Assembly Plant as % Total Mfgr. Workers						2		

Data sources used were not always complete or current.
Attempts have been made to verify data, but errors may still exist.

Detroit, MI, Chrysler Plant



Microsoft Expedia

Streets98

CHRYSLER CORP
2101 CONNOR AVE
DETROIT MI
Tri Number: 48215CHRYL2101C

Map #	SIC	Name	Address	City	State
0	3711	CHRYSLER CORP. JEFFERSON N. ASSEMBLY PLANT	2101 CONNOR AVE.	DETROIT	MI
1	2819	PVS TECH. INC.	6500 FRENCH RD.	DETROIT	MI
2	3711	NEW MACK VIPER ASSEMBLY	11801 MACK AVE.	DETROIT	MI
3	3341	CONTINENTAL ALUMINUM CO.	1610 ALGONQUIN ST.	DETROIT	MI
5	3711	CHRYSLER CORP. JEFFERSON ASSEMBLY PLANT S.	12200 E. JEFFERSON AVE.	DETROIT	MI
6	3366	HACKETT BRASS FNDY. CO.	1200 LILLIBRIDGE	DETROIT	MI
7	2951	NATIONAL VARNISH CO.	609 ST. JEAN P.O. BOX 14001	DETROIT	MI
8	3999	ALCO-NVC INC.	580 ST. JEAN ST.	DETROIT	MI

AREA WIDE 1994 TRI EMISSION PROFILE

CHRYSLER CORP
WAYNE COUNTY, Michigan

Latitude: 42 22 25
Longitude: 82 57 36

Map Key:
Auto
Plant
Truck



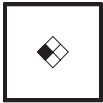
Air
Release



Water
Release

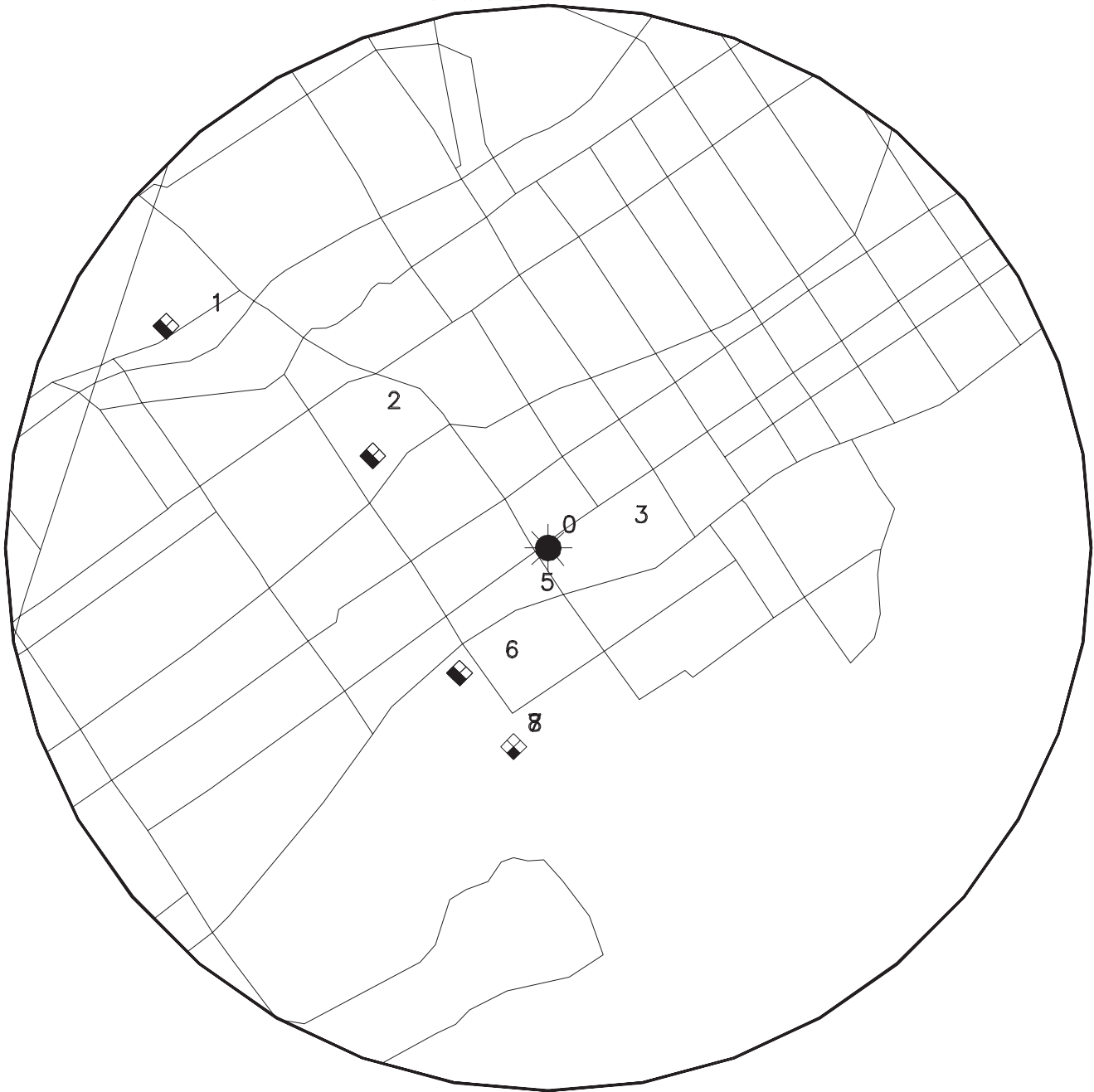


Land
Release



Transfer
location
to offsite

3 Mile Buffer



Number without a Symbol denotes no reported emissions over 0.5 pounds per year

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
CHRYSLER CORP TRI NO: 48215CHRYL2101C

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
CHRYSLER CORP. JEFFERSON N. ASSEMBLY PLANT								
2101 CONNOR AVE. DETROIT	MI 48215							
METHANOL	1,500	50	0	0	1,550	0	75	75
N-BUTYL ALCOHOL	6,600	41,000	0	0	47,600	0	7,255	7,255
BENZENE	53	23	0	0	76	0	220	220
METHYL ETHYL KETONE	23,000	120	0	0	23,120	0	790	790
1,2,4-TRIMETHYLBENZENE	28,000	45,000	0	0	73,000	0	12,211	12,211
ETHYLBENZENE	2,300	14,000	0	0	16,300	0	10,802	10,802
ETHYLENE GLYCOL	200	4	0	0	204	560	0	560
METHYL ISOBUTYL KETONE	6,000	39,000	0	0	45,000	0	410,000	410,000
XYLENE (MIXED ISOMERS)	18,000	100,000	0	0	118,000	0	245,772	245,772
COPPER	330	1,800	0	0	2,130	22	6,060	6,082
PHOSPHORIC ACID	76	660	0	0	736	0	0	0
NITRIC ACID	3	390	0	0	393	0	0	0
GLYCOL ETHERS	26,000	110,000	0	0	136,000	83,000	1,930	84,930
MANGANESE COMPOUNDS	0	0	0	0	0	770	7,000	7,770
NICKEL COMPOUNDS	0	0	0	0	0	770	7,500	8,270
ZINC COMPOUNDS	0	0	0	0	0	160	26,394	26,554
SUBTOTALS	112,062	352,047	0	0	464,109	85,282	736,009	821,291
PVS TECH. INC.								
6500 FRENCH RD. DETROIT	MI 48213							
HYDROCHLORIC ACID	0	94	0	0	94	0	1,834	1,834
CHLORINE	0	35	0	0	35	0	0	0
SUBTOTALS	0	129	0	0	129	0	1,834	1,834

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
CHRYSLER CORP TRI NO: 48215CHRYL2101C

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS	
NEW MACK VIPER ASSEMBLY 11801 MACK AVE. DETROIT MI 48214			SIC DESCRIPTION: SIC CODE: 3711	MOTOR VEHICLES & CAR BODIES			MAP LOCATION NO:		2
ETHYLENE GLYCOL	5	0	0	0	5	0	37	37	
SUBTOTALS	5	0	0	0	5	0	37	37	
CONTINENTAL ALUMINUM CO. 1610 ALGONQUIN ST. DETROIT MI 48215			SIC DESCRIPTION: SIC CODE: 3341	2NDARY SMELT/NONFERROUS METALS			MAP LOCATION NO:		3
SUBTOTALS	0	0	0	0	0	0	0	0	
CHRYSLER CORP. JEFFERSON ASSEMBLY PLANT S. 12200 E. JEFFERSON AVE. DETROIT MI 48215			SIC DESCRIPTION: SIC CODE: 3711	MOTOR VEHICLES & CAR BODIES			MAP LOCATION NO:		5
SUBTOTALS	0	0	0	0	0	0	0	0	
HACKETT BRASS FNDY. CO. 1200 LILLIBRIDGE DETROIT MI 48214 3295			SIC DESCRIPTION: SIC CODE: 3366	COPPER FOUNDRIES			MAP LOCATION NO:		6
COPPER	0	3,100	0	0	3,100	0	20,100	20,100	
SUBTOTALS	0	3,100	0	0	3,100	0	20,100	20,100	

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
 CHRYSLER CORP TRI NO: 48215CHRYL2101C

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
NATIONAL VARNISH CO. 609 ST. JEAN P.O. BOX 14001 DETROIT MI 48214 0001			SIC DESCRIPTION: PAVING MIXTURES AND BLOCKS SIC CODE: 2951				MAP LOCATION NO:	7
SUBTOTALS	0	0	0	0	0	0	0	0
ALCO-NVC INC. 580 ST. JEAN ST. DETROIT MI 48214			SIC DESCRIPTION: MANUFACTURING INDUSTRIES, NEC SIC CODE: 3999				MAP LOCATION NO:	8
1,2,4-TRIMETHYLBENZENE	3,567	0	0	0	3,567	0	0	0
XYLENE (MIXED ISOMERS)	1,211	0	0	0	1,211	0	0	0
SUBTOTALS	4,778	0	0	0	4,778	0	0	0

Chrysler Corp. (Jefferson N)
Detroit Wayne County, Michigan

Latitude: 42 22 25 N
Longitude: 82 57 36 W

- MAP KEY:
-  County Boundaries

 Inter State Highway

 US Highway

 Rail Road

 One Mile

 Three Miles


 Five Miles
- POPULATION DENSITY / SQ. MILE
-  Greater than 10000


 1000 - 10000


 100 - 1000


 10-100


 1-10


- Minority, poverty, and High School
Incomplete percentages
-  Greater than 50

 40 - 50

 30 - 40

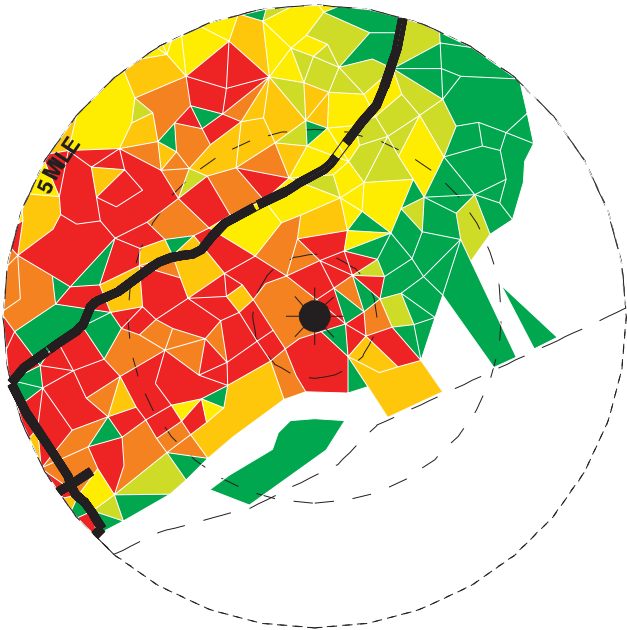
 20 - 30

 10 - 20

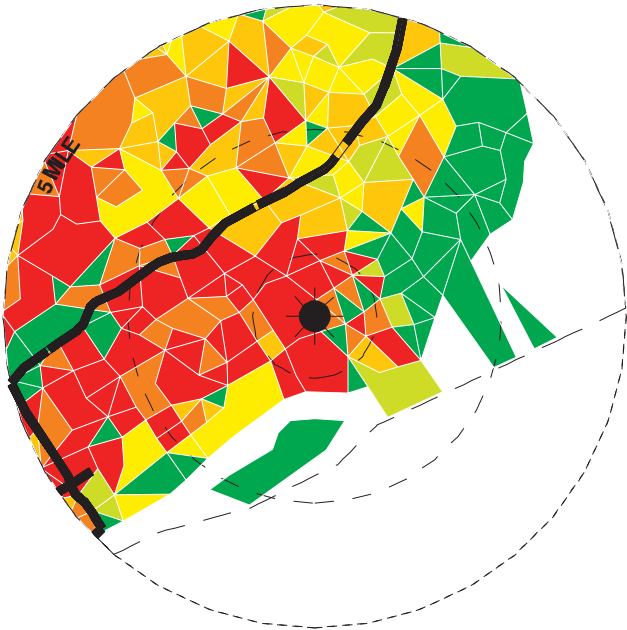
 0 - 10



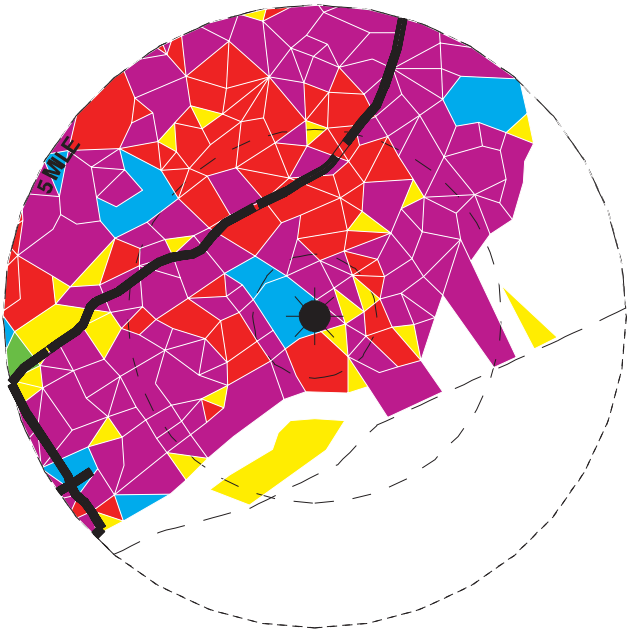
Percentage of Total Population
Below Poverty Level



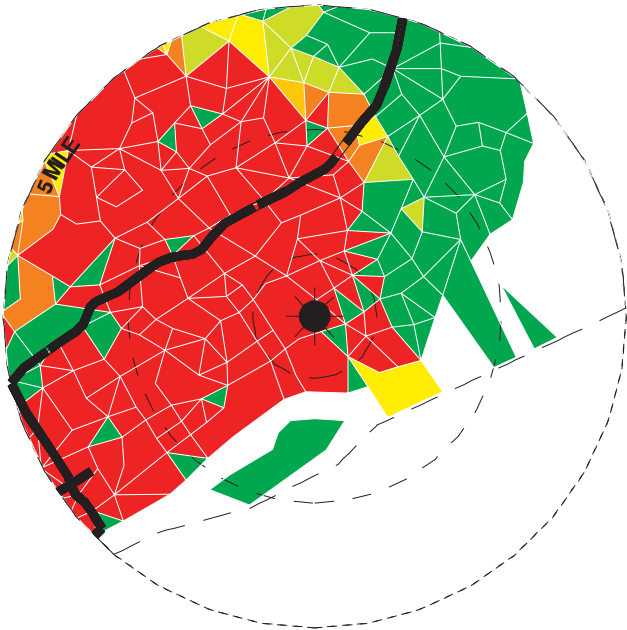
Percentage of Population not
Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population



Chrysler Corp. (Jefferson N)

Detroit Wayne County, Michigan

Latitude: 42 22 25 N
Longitude: 82 57 36 W

MAP KEY:

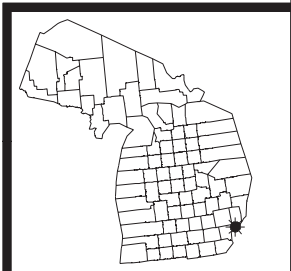
- County Boundaries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

POPULATION DENSITY / SQ. MILE

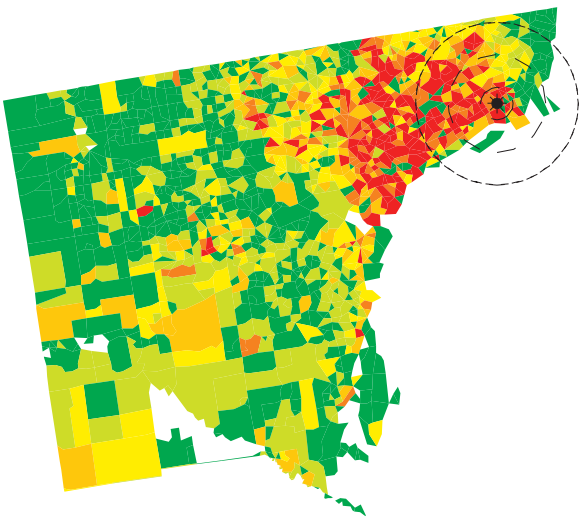
- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

Minority, poverty, and High School Incomplete percentages

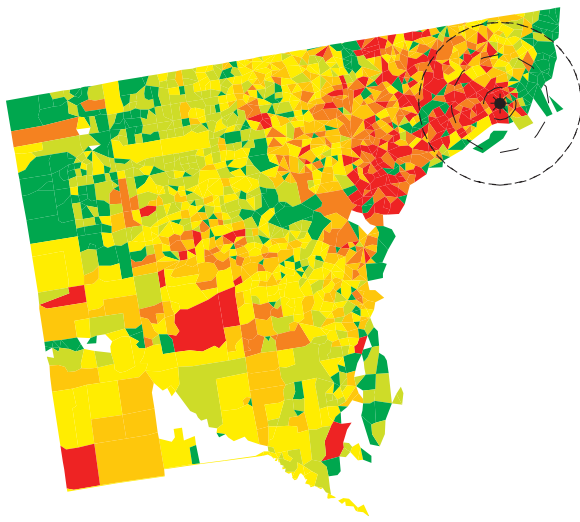
- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



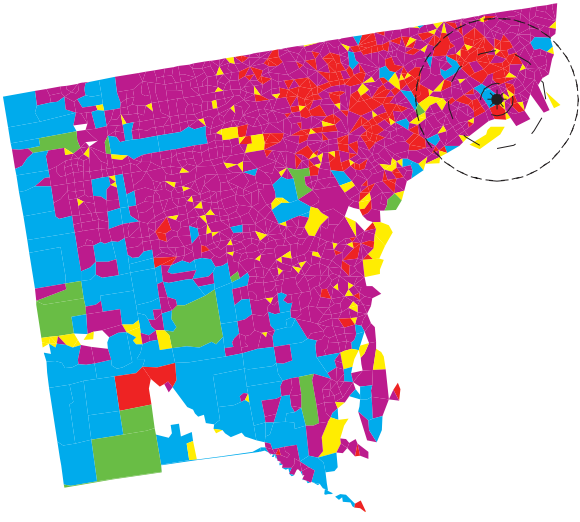
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population

